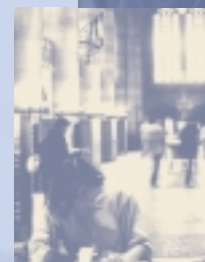
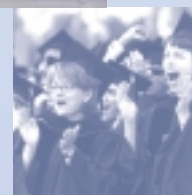


Yale

Graduate School of Arts and Sciences 2000–2001



PH.D. PROGRAMS

African American Studies*	History of Medicine & Science
American Studies	Immunobiology†
Anthropology	Investigative Medicine
Applied Mathematics	Italian Language & Literature
Applied Physics	Linguistics
Astronomy	Management
Cell Biology†	Mathematics
Cellular & Molecular Physiology†	Mechanical Engineering
Chemical Engineering	Medieval Studies
Chemistry	Microbiology†
Classics	Molecular Biophysics & Biochemistry†
Comparative Literature	Molecular, Cellular, & Developmental Biology†
Computer Science	Music
East Asian Languages & Literatures	Near Eastern Languages & Civilizations
Ecology & Evolutionary Biology	Neurobiology†
Economics	Neuroscience†
Electrical Engineering	Pharmacology†
Engineering & Applied Science	Philosophy
English Language & Literature	Physics
Epidemiology & Public Health	Political Science
Experimental Pathology†	Psychology
Forestry & Environmental Studies	Religious Studies
French	Renaissance Studies*
Genetics†	Slavic Languages & Literatures
Geology & Geophysics	Sociology
Germanic Languages & Literatures	Spanish & Portuguese
History	Statistics
History of Art	

TERMINAL MASTER'S PROGRAMS

African Studies	International & Development Economics
American Studies	International Relations
Applied Mathematics	Mathematics
Archaeological Studies	Medieval Studies
Biostatistics	Molecular Biophysics & Biochemistry
Computer Science	Music
East Asian Studies	Near Eastern Languages & Civilizations
Engineering & Applied Science	Psychology
English Language & Literature	Russian & East European Studies
Germanic Languages & Literatures	Slavic Languages & Literatures
History	Statistics
History of Medicine & Science	

* only through combined Degree Program

† concentrations within the combined Biological and Biomedical Sciences Program

PRESIDENT'S GREETING

It gives me great pleasure to join with Dean Hockfield and the graduate faculty in welcoming your interest in Yale. As graduate students at Yale, you would become a part of a long and distinguished tradition. Yale was the first American institution, in 1861, to offer the Ph.D. Today's graduate students inherit an American scholarly tradition that formally originated here.

We believe that Yale today has the distinguished scholars, the caliber of graduate and undergraduate students, the unparalleled libraries, galleries and resources, and the quality and character of community that will help you foster your intellectual development and personal growth.

We also believe you would become a part of a special community. Yale is an institution which has long prided itself in its capacity to offer the excellence of a large university—with a great undergraduate college and eleven distinguished graduate and professional schools—and the pleasures of a smaller, more manageable environment. The size of the student body of approximately 5,200 undergraduates and 5,500 graduate and professional students gives Yale the advantages of scale with the intimacy of community.

I have been involved in the Graduate School for nearly thirty years: as a student, teacher, and adviser of dissertations in nineteen years on the faculty of the Economics Department, as Director of Graduate Studies and Chairman of Economics, and finally as Dean of the Graduate School and President of the University. The health and strength of the School, and the success and happiness of its students, are of supreme importance to me, both for what they signal about the strength of this institution and what they promise for the health of scholarship in the next millennium.

Please know that, as you begin your exploration, you take my most sincere hopes that you will enjoy getting to know more about Yale and exploring its suitability for your professional aspirations and your personal growth.



Sincerely yours,

A handwritten signature in dark ink that reads "Richard C. Levin". The signature is written in a cursive, flowing style.

RICHARD C. LEVIN, PRESIDENT

WELCOME TO YALE

- 7 Programs of Study
- 9 Earning the Degree

LIFE AT YALE

- 10 Housing
- 12 Health Services
- 12 International Student Life
- 14 Religious Life
- 14 Spouses & Domestic Partners
- 15 Children
- 16 Student Organizations
- 16 Computing & Communications
- 17 The McDougal Center
- 19 Resource Office on Disabilities

FINANCIAL INFORMATION

- 20 Tuition and Living Costs
- 20 Financial Assistance
- 24 Departments and programs

APPLICATION

- 43 Application Guidelines
- 48 Departmental/Program Codes
- 49 Application Forms
- 63 Institutional Codes
- 67 Campus Map



MESSAGE FROM THE DEAN

I am delighted that you are interested in applying to the Yale Graduate School of Arts and Sciences. Graduate study at Yale is exciting, rigorous and deeply satisfying. It will prepare you for a career in teaching and research as well as for a wide variety of leadership positions, both within and outside academia.

With its outstanding laboratories and libraries, rich cultural life, wide range of social and athletic activities, beautiful campus, lively city, and talented people, Yale University is a great place to be. Our location is ideal, midway between New York City and Boston, close to both the New England countryside and Long Island Sound.

We have a remarkable community here. Students, faculty, and administrators all work together in close cooperation to make graduate education at Yale a wonderful experience. If you decide to pursue your studies here, you will be joining an extraordinary group of students and professors, mentors and friends.

Each department and program brings together scholars—distinguished faculty members and talented students—who share a common interest in learning about a particular area of science or human activity. Your application to Yale is, in effect, a request to study within that community. Once here, you will have the opportunity to explore your field in depth, gain mastery of a specialized subject matter, and pursue original research under the guidance of members of the faculty. You will also find many opportunities for cross-disciplinary study in both formal and informal settings.

If you have questions about any of Yale's departments and programs, please do not hesitate to write to the Graduate School Admissions Office or to the Director of Graduate Studies in the department or program that interests you. Wishing you good luck with all your applications and hoping to see you at Yale next fall,



A handwritten signature in dark ink, reading "Susan Hockfield". The signature is elegant and cursive, with a long horizontal line extending from the end.

SUSAN HOCKFIELD, DEAN

WELCOME TO YALE AND THE GRADUATE SCHOOL

Graduate education at Yale began in 1847, with 11 students. Only master's degrees were awarded in the early years. The first Ph.D. degrees conferred in the United States were granted by Yale in 1861.



Yale's student population is truly diverse. The 2,300 students enrolled in the Graduate School come from all 50 states and from around the world.

The campus occupies 200 acres in New Haven and has many beautiful courtyards and open spaces. The architecture ranges from neoclassical and neogothic to contemporary.



Yale was founded in 1701 by a group of Congregational ministers in Connecticut as a "Collegiate School" to train young men for "Publick employment both in Church and Civil State." In 1716, after several moves, the College was relocated to New Haven, where citizens had contributed funds for a school building. In 1718 a donation from Elihu Yale allowed completion of that first college building and the name was changed from Collegiate School to Yale College. In the years since then, Yale has grown into one of the world's most distinguished centers of learning and research.

Today, the University has twelve schools and almost 11,000 students. Yale College—the original unit—enrolls about 5,200 young men and women undergraduates. The Graduate School of Arts and Sciences, founded in 1847, is the second largest unit at Yale, with close to 2,300 students. The Graduate School is the only one that awards the Doctor of Philosophy, Master of Philosophy, Master of Arts, and Master of Science degrees.


In addition, there are ten professional schools with a combined enrollment of about 3,300 students: Architecture, Art, Divinity, Drama, Forestry and Environmental Studies, Law, Management, Medicine, Music, and Nursing. The student body at Yale is exceedingly diverse, with members hailing from all 50 states and many countries around the world. Close to one-third of the students enrolled at the Graduate School come from outside the United States.

Located in the city of New Haven, a little closer to New York than to Boston, Yale enjoys many of the advantages of a cosmopolitan center, with outstanding cultural and recreational opportunities. New Haven is a safe, small city (120,000 people and 20-square miles) with beautiful and varied architecture, convenient shopping, fine restaurants of all kinds, book stores, clubs, and outstanding theater (stage and screen)—all within an easy walk of campus. East Rock Park, with 800 acres of trails and fields tucked into its red glacial cliff, is within walking distance, and Lighthouse Point, a public beach and carousel on Long Island Sound, is accessible by city bus.

The University offers outstanding facilities for research. The library—one of the best in the world—has more than 10 million volumes, 6.7 million units on microform, 3.5 million records in Orbis (the online catalogue), and subscribes to 55,000 periodicals. The Beinecke Rare Book and Manuscript Library, the University Art Gallery, the Center for British Art, the Collection of Musical Instruments, and Information Technology Services, as well as the extensive resources of the professional schools are available to all students. In addition, Yale participates in the Research Libraries Group, extending our assets to include Columbia and Harvard universities and the New York Public Library.



The Graduate School enrolled 1,277 men and 969 women—2,246 in all—during the 1998–99 academic year. About 1,800 were in residence. The faculty numbered 984. Between July 1, 1997, and June 30, 1998, 368 doctorates were awarded.



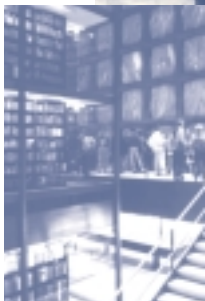
I take part regularly in a dissertation reading group, in which we give each other chapters of our dissertations to read and critique, and I'm continually impressed by how willing and open people are about sharing their ideas.

JOCELYN OLCOTT, HISTORY

The library system at Yale is one of the best in the world, with vast collections of bound volumes, periodicals, musical and spoken recordings, manuscripts, maps, slides, and coins.



Above: Our unique resources include the Yale Center for British Art. Left: The Beinecke Rare Book and Manuscript Library houses millions of original manuscripts. Below: This raptor is in the Great Hall of Dinosaurs at the Peabody Museum of Natural History.



Research facilities for the sciences include the Josiah Willard Gibbs Research Laboratories, the Kline Geology Laboratory, the Sterling Chemistry Laboratory, the fourteen-story Kline Biology Tower, the Becton Engineering and Applied Science Center, the Peabody Museum of Natural History, the Bass Center for Molecular and Structural Biology, the Arthur W. Wright Nuclear Structure Laboratory, the Bush Center in Child Development and Social Policy, the Institute for Biospheric Studies and the many biomedical science laboratories in the Sterling Hall of Medicine. Off campus, Yale has 11,000 acres of forest, used for research, located in Connecticut, Vermont, and New Hampshire. The largest single tract is the Yale-Myers Forest, which occupies 7,840 contiguous acres or 12.2 square miles.

Yale and New Haven are well known as centers for creative and performing arts. Hundreds of concerts and recitals are held during the academic year, and major productions are presented on campus at the Yale Repertory Theatre, University Theatre, and other performance spaces, as well as at the Long Wharf Repertory Theatre, the Shubert Performing Arts Center, and other venues in the city. The Yale University Art Gallery's permanent collection contains outstanding ancient, medieval, Renaissance, and modern art from around the world, augmented by visiting exhibitions. The Yale Center for British Art offers the richest collection of British paintings, prints, and drawings outside the United Kingdom, and its temporary exhibitions draw art lovers from New York City to Boston.

Close to eighty endowed public lectures are given at Yale each year. Hundreds of seminars, colloquiums, forums, and conferences enrich the intellectual life on campus. Leaders in all fields of human endeavor visit Yale every year to deliver talks that are open to the public.

The Graduate School supports its students in many ways. These include tuition waivers, fellowships and stipends for almost all PH.D. students; career services; teacher training; workshops dealing with academic, professional, and personal issues; comprehensive, free, on-site primary health care; hospitalization insurance, free for eligible PH.D. students; travel-related health care; the McDougal Graduate Student Center; and the Payne Whitney Gymnasium.

Come and see Yale's beautiful campus for yourself. Please call the academic department to which you are applying to arrange to meet with current students, attend classes, and speak with professors. Guided campus tours are offered every day at the Visitor Information Center, 149 Elm Street. Call (203) 432-2300 for directions and tour times. A map of campus is available at the Visitor Center and on line at www.yale.edu/yaleinfo/maps.



Carved stone faces are tucked into the entry arches of the Hall of Graduate Studies. They are portraits of the draftsmen who assisted architect James Gamble Rogers when the great neogothic building was constructed, 1930-32.

PROGRAMS OF STUDY

Doctoral and master's degrees. Students may enter the Graduate School after earning a bachelor's degree or a master's degree. The majority of departments and academic programs in the Graduate School offer programs of study leading to the PH.D. degree. Many offer the master of arts (M.A.) or science (M.S.) and the master of philosophy (M.PHIL.) degrees, which may be earned by students in the course of their doctoral studies. The M.PHIL. is awarded to students who complete all requirements for the PH.D. except the dissertation. Some departments and programs admit students who seek the M.A. or M.S. as a final or "terminal" degree.

Full-time and part-time study. Doctoral students are expected to devote their full energies to course work and preparation for qualifying examinations in the first years, and dissertation research and writing in the final years of graduate study. Part-time study may be arranged under special circumstances, by petition to the school. Applicants for terminal master's degrees may, with approval of the Graduate School, be admitted for part-time study. Because of visa regulations, international students are normally admitted for full-time study only.

Nondegree study. Qualified individuals who wish to study at the graduate level but not pursue a degree may be admitted to the Division of Special Registration (DSR) as "special students." Admission to this program is for one term or one year only and carries with it no commitment for further study. These students are not eligible for financial aid or loans.

Students who are graduate degree candidates at other universities and who wish to pursue full-time dissertation-level research or a combination of research and course work may be admitted to DSR as "visiting affiliated research graduate students." A limited amount of tuition assistance based on need is available, but support beyond tuition (stipends, teaching or research assistantships) is not available to these students.

Students who are subsequently admitted to degree programs at Yale may receive academic and tuition credit for work done while enrolled in DSR, with the recommendation of the department and approval of the appropriate dean.

Interdisciplinary study and combined programs. Students may apply for admission to only one department or program within the Graduate School. Most academic departments encourage their students to take one or more courses in a related department, and students are often advised by faculty members from more than one department during their dissertation research. Students in the Graduate School may, with permission, take advantage of course or research opportunities in Yale College and in the professional schools.

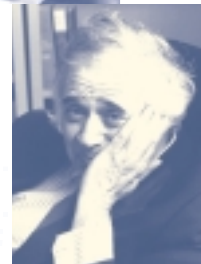
Our outstanding faculty is what attracts many students to New Haven. Right: Professor Jennifer Doudna studies the structure of RNA with research technician Kaihong Zhou.



Jerry Woodall, professor of electrical engineering, holds 67 U.S. patents and has published more than 283 academic works.



Widely considered the leading literary critic of our time, Harold Bloom's most recent book is Shakespeare: *The Invention of the Human*.





Above: A lot of learning in graduate school takes place in seminars and small classes. Left: Some students, like these in British Studies, organize colloquiums to present their research informally to one another. Below: In the sciences, there's no substitute for hands-on lab work.



The culmination of doctoral study is individual research. History of art student Camara D. Holloway's work led to the discovery of lost portraits by Harlem Renaissance photographer James L. Allen.



From frustration to success: Jin-Ping Han's unsuccessful long-term data storage device won a national prize, after she and Professor Tso-Ping Ma adapted it into a dynamic random access memory cell that may revolutionize telecommunications.

Several interdisciplinary PH.D. programs exist in the Graduate School, including African American Studies, Classics, and Renaissance Studies. Individual ad hoc programs may be proposed by interested students, normally before the start of the second year. Written proposals must be approved by the directors of graduate studies and dean(s) in both departments.

Joint-degree programs. The programs listed below allow for simultaneous study in the Graduate School and one of the professional schools in Yale University. Students may submit proposals for other joint-degree programs.

Degree program	Professional school	Minimum length of program
M.D./PH.D.	Medical School	6 years
J.D./PH.D.	Law School	6 years
J.D./M.A.	Law School	4 years
M.B.A./M.A.*	Management	3 years
M.F.S./M.A.*	Forestry & Environmental Studies	3 years
M.P.H./M.A.*	Epidemiology & Public Health	3 years

*Available in certain Graduate School programs only.

Applicants to the M.D./PH.D. program apply for admission to both the Graduate School and the School of Medicine on a single application form to be obtained from the registrar of the School of Medicine.

Applicants to the remaining programs may apply to both schools at the same time or they may enter one school and apply to the second during their first year of study. A separate application is required for each school, and each makes its own admission decision. Students who apply simultaneously to two schools should indicate that they are doing so on both applications.

Summer study. Many graduate students remain in New Haven during the summer for independent study and research. Some dormitory and dining facilities remain open. The Graduate School does not offer courses in the summer, but undergraduate courses and language instruction are available. Libraries and laboratories are open and there are opportunities for summer work. For information, contact the Yale Summer and Special Programs, PO Box 201722, New Haven CT 06520-1722, or call (203) 432-2430. www.yale.edu/summer/application.html

Transfers and advanced standing. Academic departments and programs may waive a portion of the PH.D. course requirement in recognition of graduate-level work done at Yale or another university. A student may be granted advanced standing of up to one year for work completed in a Yale master's degree program that is relevant to the student's PH.D. program. No advanced-standing credit will be awarded toward the requirements for a terminal M.A./M.S. degree.

Further information. The Yale Graduate School bulletin, *Programs and Policies*, contains comprehensive and definitive descriptions of departments and programs, a list of faculty members and courses, as well as academic rules and regulations. *Programs and Policies* may be purchased by sending a check or money order in U.S. currency for \$5, payable to Yale University, to the Graduate School Catalog Office, PO Box 208236, New Haven CT 06520-8236.

Programs and Policies is distributed without charge to students when they register in the fall. Information is also available on the Internet at the Graduate School Web site: www.yale.edu/gradsch/grad

EARNING THE DEGREE

Length of study. Students are expected to complete the requirements for the M.A. and M.S. degree in one to two years, depending on the program. Students who enroll at Yale without a master's degree are expected to earn the Ph.D. degree in six years. The first one or two of those years are generally spent taking courses full time; the next is spent completing any course requirements, preparing for qualifying exams and submitting a dissertation prospectus (see below). The remaining years are spent pursuing and writing up a work of original research.

Residency requirement. Doctoral students are required to be in residence in New Haven for at least three years.

Comprehensive examinations. Doctoral candidates are required to pass comprehensive qualifying examinations, generally after completion of course work and before beginning dissertation research.

Dissertation prospectus. Before the end of the third year of study, doctoral students submit a proposal summarizing the nature and scope of their dissertation for approval by the department.

Dissertation. The doctoral dissertation is the climax of the graduate school experience. Specific expectations vary among the departments, but every dissertation makes an original contribution to a student's field of study by discovering significant new information, achieving a new synthesis of ideas, developing new methods or hypotheses, or applying established methods to new materials. A dissertation also demonstrates the student's mastery of relevant resources and methods. Students work with one or more advisers throughout the process.



Edward Bouchet was the first African American student to graduate from Yale College, in 1874. When he earned his Ph.D. (in physics) from Yale only two years later, he was the first black man in North America to achieve that distinction.



The first woman to receive a Yale doctorate was Elizabeth Deering Hanscom, who graduated in 1894 with a degree in English language and literature. Today, women and men attend Yale in nearly equal numbers.

LIFE AT YALE

HOUSING

New Haven offers a range of housing choices. Whether you are looking for an apartment building next to bookshops, cafés, museums, pubs, and theaters, or a tranquil neighborhood of tree-lined streets and big, rambling homes, you can find affordable and attractive housing in New Haven. Visit the Web site www.cityofnewhaven.com. This site offers extensive historical information on the city, as well as a guide to New Haven displaying cultural attractions, information on public transportation, and a map. Other sources that give a glimpse into New Haven life are the local newspapers, *The New Haven Register* (daily) and the *New Haven Advocate* (weekly), which both carry classified ads and have Web sites: www.newhavenadvocate.com and www.ctcentral.com.

The Graduate Housing Office (GHO) operates the Graduate Dormitory Office (203) 432-2167 and the Graduate Apartment Office (203) 432-8270, both in Helen Hadley Hall, 420 Temple St. Graduate housing office: www.yale.edu/hronline/gho.

On-campus living affords close proximity to University facilities and opportunities for students of diverse backgrounds and fields of study to become friends. The two largest dorms for single graduate students are the Hall of Graduate Studies (HGS), a neogothic complex which is the administrative center of the Graduate School as well as a classroom facility, and Helen Hadley Hall (HHH), a modern building closer to Science Hill. Both offer laundry facilities, and computer and recreation rooms.

Helen Hadley Hall has two kitchens on each of its five residential floors, enabling residents to prepare their own meals. HGS has a cafeteria-style dining hall that serves lunch and dinner six days a week. Residents of HGS are required to enroll in a meal plan. There are also two large, older homes that have been converted to student housing with a family atmosphere.

In addition, the University owns and operates eight graduate apartment buildings, some well suited for students who are married and/or who have children. Four are located in the Science Hill area; two are in downtown New Haven. The apartment buildings vary in their number of units and floor plans, but all of them have on-site laundry facilities and most offer storage space.

The Graduate Housing Web site provides exterior and interior views of the dorms and apartments. The Web site also advises on eligibility and applications and displays other housing choices at Yale and in the New Haven area. These include residences managed by other graduate and professional schools at Yale, and by Yale agencies such as the International Center and University Properties. Interested individuals should contact these offices directly; the numbers and addresses for them are given on the Web site.

The Hall of Graduate Studies, or HGS, houses 175 students in furnished single rooms that reflect the building's architecture. Many have working fireplaces and built-in bookcases. Helen Hadley Hall also has 175 singles.



Students and faculty often eat lunch together in the HGS dining hall. To encourage collegiality, the Dean hosts lectures, receptions, and parties. The McDougal Center organizes movie nights and social events.



Today, the Graduate School of Arts and Sciences offers instruction in 63 departments and programs leading to master's and doctoral degrees. Current enrollment is close to 2,300 and there are about 20,000 living alumni.

I came to Yale wanting to be a teacher more than anything else. At the departmental level and Graduate School-wide, support from the Dean, Bill Rando and from WAT has helped to create a nurturing and supportive community that helps me professionally.

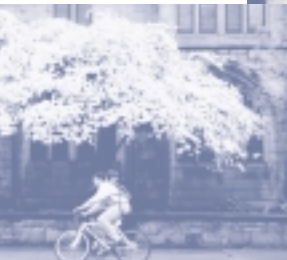
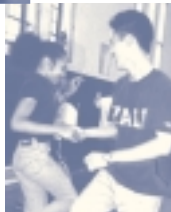
JOSHUA PERIN, ENGLISH





Yale is a great place to work and play. Left: Payne Whitney Gymnasium, a huge, cathedral-like facility, is open to graduate students at no charge during the academic year.

The gym has practice swimming pools, dance studios, squash courts, indoor jogging tracks, basketball courts, and a state-of-the-art fitness center.



The Off-Campus Listing Service is a database of apartments, houses, condos, and share possibilities listed by private owners. This database may be accessed via the Internet from any University-networked computer, twenty four hours a day. If you matriculate at Yale, you will be given a PIN number to access these listings.

HEALTH SERVICES

The Yale Health Plan (YHP) is a comprehensive health care organization that provides excellent care to the Yale community, including internal medicine, obstetrics and gynecology, pediatrics, mental hygiene, urgent care, and other specialties. Students registered for half-time study or more are automatically eligible to receive free primary health care services at the YHP. Students enrolled in the Division of Special Registration may use the YHP on a fee-for-service basis or enroll as paying members. www.yale.edu/yhp

Insurance coverage for hospitalization and specialty care is provided to eligible doctoral students at no cost. Health awards covering 50 percent of the cost of family coverage are provided to eligible doctoral students. Specialty care includes allergy, dermatology, ear-nose-throat, emergency services, obstetrics, and physical therapy. Students enrolled in “terminal” master’s degree programs are assessed a fee for hospitalization and specialty care insurance, unless they have other suitable coverage. Two-person and family coverage as well as YHP supplemental coverage, which includes prescription medications, can be arranged. For further information about the YHP, write to Member Services, Yale University Health Services Center, PO Box 208327, New Haven CT 06520.

The Yale Health Plan is based at University Health Services Center (UHSC), 17 Hillhouse Avenue, between Grove and Trumbull streets.

INTERNATIONAL GRADUATE STUDENT LIFE

International students make up almost one-third of the graduate student population at Yale. Listed below are offices and programs on campus dedicated to the academic, immigration, and social concerns of international students.

Office of Foreign Students and Scholars (OFS&S). The OFS&S addresses the immigration needs of the University’s international students and scholars, especially as these needs relate to work and/or study at Yale. The OFS&S processes I-20s for entering international students and advises on international student registration, visa documents, applications for practical training authorization, and relief for certain F-1 and J-1 Asian students (because of the recent economic crisis in parts of Asia). www.yale.edu/foreign



“In the Company of Scholars,” the Dean’s Lecture Series: Once a month, senior professors speak informally about their current research, followed by a wine-and-cheese reception.

The "Ivy League" is an athletic organization whose members are the undergraduate colleges of Yale, Harvard, Brown, Princeton, Columbia, Dartmouth, Cornell, and University of Pennsylvania.



For more information about the OFS&S and its services, call (203) 432-2305 or fax (203) 432-7166. Or write them at PO Box 208224, New Haven CT 06520-8224. Their office is located at 246 Church Street (between Wall and Grove streets) on the second floor. Office hours are Tuesday, Wednesday, and Thursday, 9–11:30 am and 1–3:30 pm, and Friday, 9 am–noon, and by appointment.

The Yale English Language Institute. For more than thirty-five years, non-native speakers of English in the Yale community have received superb instruction at the English Language Institute (ELI). ELI courses are for graduate and professional students, as well as for students who need advanced English language skills for future academic or professional pursuits. ELI runs both academic-year and summer sessions. In the summer the institute has an intensive English as a Second Language (ESL) course and American English courses (designed specifically and separately for law, business, and graduate students). A typical term's offering at ELI includes: Advanced Writing Workshop; Pronunciation Mini-Courses and Workshops; Integrated Skills; Professional Presentation/International Teaching Assistants' Course; and Special Writing Seminar: Writing for Science, Engineering, and Medicine. The Graduate School administers competitive fellowships for the intensive summer program. In addition, the school provides fellowships for a limited number of courses during the academic year. www.yale.edu/eli

International Host Student Program. The International Host Student Program, initiated by the McDougal Graduate Student Center, matches incoming international students with continuing students who help their new colleagues adapt to the school and the city. Host students are not expected to provide newcomers with housing or transportation. For specifics on the program, consult the "International Students" link on the McDougal Center, www.yale.edu/mcdougal or contact Lisa Brandes, director of the McDougal Center, at (203) 432-8273.

International Center of New Haven. The International Center, 442 Temple Street, serves the orientation and hospitality needs of the community. Center activities include orientation programs, 'Round-the-World Women, classes and tutoring in ESL, international friendship and hospitality programs, social events, and trips to local areas of interest. Center hours are 9 am to 3 pm, Monday through Thursday, and 9 am to noon on Friday. Hours vary during the summer.

The International Center Residence (called International House) is a semi-cooperative, close to Science Hill. International House accommodates up to fifteen people. For more information, write the International Center, PO Box 208212, New Haven CT 06520-8212 or call (203) 432-6460.



Some graduate students, like geneticists Margaret Macris and Shani Peretz, volunteer their time to encourage children to consider careers in science.



Yale's weeklong celebration of Native American culture culminated with a performance by the Thunderbird American Indian Dancers at the Peabody Museum and a powwow at Payne Whitney Gymnasium.



Informal Opportunities for International Students. Opportunities abound for international graduate students to meet others from their countries. Lectures and film series dedicated to a country or region are frequent, and there are cultural organizations and associations to explore.

The Yale Center for International and Area Studies, based in Luce Hall, 34 Hillhouse Avenue, is organized into academic councils for the study of all regions of the world. www.cis.yale.edu/ycias/

Throughout the academic year, the University's cultural centers invite guest speakers, present forums, concerts, performances, and art exhibits. The cultural centers offer students a place to relax, study, and share meals and discussions.

Homesickness for the sound and slang of one's mother tongue can be remedied at any number of language tables in the University's dining halls. For a taste of home, New Haven boasts a wide variety of ethnic cafés, groceries, and restaurants, including Asian, Eastern European, Latin American, and Middle Eastern.

RELIGIOUS LIFE

The religious resources of Yale University include the University Chaplaincy (in Bingham Hall on Old Campus); the Church of Christ in Yale University (United Church of Christ); and Yale Religious Ministry, the on-campus association of clergy and nonordained representatives of various religious faiths. The ministry includes the Chapel of St. Thomas More, the parish church for Roman Catholic students; the Joseph Slifka Center for Jewish Life at Yale, a religious and cultural center that incorporates Hillel and a kosher dining hall; the Episcopal Church at Yale, Luther House and others, such as the Church of Christ of Latter-Day Saints, the Baha'i Association, the Unification Campus Ministry, the Unitarian Universalist Society, the New Haven Zen Center, and the Islamic Student Association.

www.yale.edu/chaplain

The Yale Graduate Christian Fellowship meets for Bible studies and colloquiums to integrate "the life of faith with the life of the mind." www.yale.edu/ygcf

New Haven also has many places of worship that welcome students. Some offer worship services in foreign languages.

SPOUSES AND DOMESTIC PARTNERS

Same-sex domestic partners are extended the same privileges at Yale as spouses. Spouses and same-sex domestic partners of graduate students are eligible for Student Affiliate ID Cards, which give access to the Yale shuttle service, the library system, museums, and gymnasium. The ID Center is located in Hendrie Hall at 165 Elm Street. Call for office hours, (203) 432-0165. www.yale.edu/idcenter



Graduate study at Yale is at times an intensely personal and contemplative experience.



Everybody who's anybody comes to Yale. Recent visitors include former Israeli Prime Minister Shimon Peres, actor Dennis Hopper, Hillary Rodham Clinton, former presidential press secretary Mike McCurry, businessman Warren Buffett, architect Philip Johnson, novelist Scott Turow, and many others.



Same-sex domestic partners and spouses of graduate students may want to work during their residence in New Haven. For short-term or part-time jobs, see Student Employment on the Yale Web site: www.yale.edu/seo. For permanent jobs at Yale, check the Yale Human Resources (HR) Web site: www.yale.edu/hronline, or go to the HR office at 155 Whitney Avenue. The classified ads of *The New Haven Register* are another good source: www.ctcentral.com. For information about visa restrictions on employment for international students and spouses, consult the Office of Foreign Students and Scholars.

Spouses and same-sex domestic partners of Yale graduate students are eligible for membership in the Yale Health Plan. www.yale.edu/yhp

Spouses (and Significant Others) of Students, sos, was formed to allay the isolation of graduate student partners. sos organizes social events and activities to give spouses and significant others opportunities for friendship and mutual support. Monthly get-togethers have included wine tastings, potluck picnics, making pizza, and going to the movies. See the McDougal Center Web site for more information: www.yale.edu/mcdougal

CHILDREN

Many graduate students come to Yale with children or start families during their residence here. Graduate students may enroll their children in the Yale Health Plan, which offers excellent pediatric primary care. For information, see www.yale.edu/yhp or call (203) 432-0246.

For information and referrals on child care, call the Early Childhood Education Center (ECEC) at (203) 785-2512. ECEC not only maintains a Internet site of general information and useful links at www.yale.edu/daycare, but also publishes a comprehensive *Directory of Child Care Programs and Nursery Schools* every year. There are several campus daycare centers in which graduate students may enroll their children. These centers are included in the ECEC directory. Graduate students may obtain copies of the directory at the center, at the Employee Benefits Office at 155 Whitney Avenue, or at the McDougal Center. New students with small children are urged to start exploring child care choices before their arrival in the New Haven area in the fall. Many daycare and nursery programs fill up by May or June for the coming year.

For parents interested in enrolling school-age children in New Haven city schools, call the Public Information office at (203) 946-8501. At the home page, choose “schools.” www.cityofnewhaven.com

There are also several private and parochial schools, pre-kindergarten through high school, in the greater New Haven community.

New Haven is a great place for kids. And adults. Museums, festivals, outdoor performances, concerts, plays, shopping, clubs—there's lots to do, if you like to stay busy.



Alma mater for Meryl Streep, Angela Bassett, John Turturro, and Paul Newman, the Yale School of Drama uses the Yale Repertory Theatre as its laboratory.

STUDENT ORGANIZATIONS

Graduate Student Assembly. The Graduate Student Assembly (GSA) consists of student representatives from academic departments and programs across the Graduate School. The GSA meets twice a month to discuss graduate student issues and advise the Dean. All are welcome to the meetings, held alternate Wednesdays at 7 pm in HGS 119. www.yale.edu/assembly

Graduate and Professional Student Senate (GPSS). The Graduate and Professional Student Senate (GPSS) consists of representatives from each of the post-baccalaureate schools at Yale. The mission of the GPSS is to bring students together across disciplinary lines for social and volunteer activities and to address issues that have an impact on the lives of all graduate and professional students. The GPSS runs the Graduate and Professional Student Center at Yale (GPSCY), 204 York Street. GPSCY is a social center and graduate student bar that offers live and recorded music, receptions, dances and parties. www.yale.edu/gpss

CLUBS AND CULTURAL ASSOCIATIONS

Listed below are some of the organizations run by graduate students: Association of Chinese Students and Scholars at Yale (ACSSY); The Black Graduate Alliance (BGA or The Alliance); The Black Graduate Network (BGN); Graduate-Professional Asians (GPA); Graduate and Professional Outdoors Club; International Singers; Outland; South Asian Graduate Students Association; Yale Graduate Christian Fellowship; Yale Russian Chorus. www.yale.edu/mcdougal

Undergraduate Groups and Cultural Centers. Yale has numerous undergraduate student organizations open to graduate students. Some organizations have an ethnic or cultural focus, some are devoted to athletics or the arts, some to politics, philosophy, or the sciences, and some oversee publications.

Graduate students also participate in the Asian American Student Association (AASA), Black Student Alliance at Yale (BSAY), Association of Native Americans at Yale, Despierta Boricua (DB—Puerto Rican student organization), El Movimiento Estudiantil Chicano de Aztlán (MEChA), Lesbian/Gay/Bisexual Cooperative at Yale, and Yale Women's Center. www.yale.edu/studentorgs

COMPUTING AND COMMUNICATIONS

Information Technology Services (ITS) provides central computing and communications services to the University, including academic computing, data networking, telephone services, voice and video networking, computer sales, training, printing and reprographic services, and general user support. www.yale.edu/its



Whatever your taste in music, New Haven has it: blues, rock, jazz, folk, pop, a capella, klezmer, gospel, and plenty of classical. The University offers hundreds of concerts and recitals every year, many of them for free, and the city also has its share of performance groups.

Academic Computing Services (ACS), a division of ITS, sets up and maintains general purpose computing clusters. Windows NT and Apple Macintosh computers and laser printers may be used by members of the Yale community at the following sites: Connecticut Hall, Cross Campus Library, Dunham Laboratories, Kline Biology Tower, and the Social Sciences Statistics Laboratory. Graduate students also have access to the computer cluster in the office wing of the McDougal Graduate Student Center. In addition, the Hall of Graduate Studies and Helen Hadley Hall have computing facilities accessible to residents twenty-four hours a day. To enhance support for graduate student research activities, the University provides “dynamic IP addressing” for laptop computers. Laptop Ethernet ports are available in residences, in the Sterling Memorial Library (SML) reading room, the McDougal Center Common Room, and—for doctoral students—in the SML carrels. www.yale.edu/acs

The Microcomputer Sales Center (MSC), located at 221 Whitney Avenue, sells IBM, HP, and Apple computers and printers, as well as software, certified network adapters, modems, and other peripherals to the Yale community at special educational prices. www.yale.edu/mcs

Network access is provided by the University for e-mail, Web page hosting, and other services. Yale’s network offers a range of local services through a campus-wide fiber-optic network that is linked to both the worldwide Internet and Internet 2, a consortium serving research universities. The services of Internet 2 include Orbis, the University library’s online catalogue; YaleInfo, a campus-wide system; and Nexis, a database of newspaper and journal articles. Internet 2 also gives access to online training courses, Web courses, and various other services. www.yale.edu/computing

A Net ID and password are required in order to use many of Yale’s network resources. All new graduate students are automatically assigned a Net ID and provided with e-mail accounts.

Ethernet data outlets can be found in most rooms in residences, offices, and laboratories. The Internet Information Center offers consulting services for campus network and Internet access for those who live off campus. www.yale.edu/iic

THE MCDUGAL GRADUATE STUDENT CENTER

The McDougal Center, established in 1997, is dedicated to the enrichment of graduate student life at Yale. The center is named after alumnus Alfred McDougal who, with his wife, Nancy Lauter, gave generously toward the creation of an intellectual, social, and academic resource for the Graduate School. The McDougal Center gives graduate students a place of their own on campus.

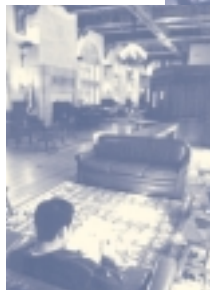
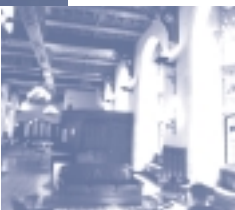


Yale is both traditional and state-of-the-art. It changes with each new student, and yet remains true to its 300-year history and timeless values.

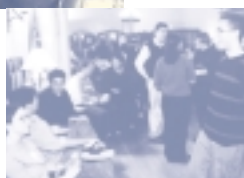




The McDougal Graduate Student Center provides a place for social, cultural, and intellectual activities.



The Common Room, with its elaborately painted wooden ceiling, emblematic windows and carved stone fireplace, is the site of frequent gatherings, both formal and casual.



Providing space and funding for intellectual, cultural, and social events, programs, resources, and services, the center enhances a sense of community at the Graduate School and facilitates professional development across the departments. The McDougal Center welcomes students, postdoctoral fellows, faculty, staff, and alumni of the Graduate School, as well as their friends and families.

Occupying the northwest corner of the Hall of Graduate Studies, the McDougal Center has three main areas: the Common Room, which is home to the student-run Blue Dog Café; a corridor dedicated to student services, meeting rooms, and resources; and a lower level that houses a resource library, meeting rooms, and offices for Working At Teaching and the Graduate Student Assembly.

The Common Room is the architectural jewel of the McDougal Center. It is an airy space in the “Collegiate Gothic” style, where natural light cascades through windows decorated with etched illustrations. The Common Room stands as a quiet haven amid the busy flow of university and town life. Its ornate ceiling is crowded with whimsically painted scenes of learning. The large stone fireplace, deep chairs, wood paneling and current magazines make it feel like a private club. It is a home away from home for graduate students.

Listed below are some of the offices and programs housed in the McDougal Graduate Student Center.

McDougal Center Office. This office oversees daily operations of the center, including the Blue Dog Café, Resource Library, and room reservations (for use of the conference room and program room). The McDougal Graduate Fellows plan a variety of social, cultural, and intellectual programs, from workshops on publishing and dissertation writing to happy hours, films, family events, and outings. For further information, call (203) 432-8273. www.yale.edu/mcdougal

Office of Graduate Career Services. GCS offers individual consultations, organizes workshops and seminars on job search issues, posts job listings, provides guidance for writing the résumé and curriculum vitae, conducts practice interviews, and organizes on-campus recruitment visits by employers seeking to hire graduate students. For further information, call (203) 432-8896. www.yale.edu/gcs

Office of Teaching Fellow Preparation and Development. The office advises the student leadership of Working at Teaching (WAT), offers individual consultation on pedagogic theory and practice, works with academic departments to enhance training of teaching assistants, and organizes programs about teaching. For further information, call (203) 432-7737. www.yale.edu/teach

Working at Teaching (WAT). WAT offers peer-led workshops for both novice and advanced teaching assistants, holds forums and panel discussions on pedagogical issues, and provides classroom consulting and videotaping. For further information, call (203) 432-1198. www.yale.edu/wat

Resource Library for Fellowships, Careers, and Teaching. Resource Library materials include books, files, brochures, and computerized databases that help students find external fellowships, research and travel funding, and information on teacher training and career services. www.yale.edu/mcdougal/resource.htm

Blue Dog Café. Located in the Common Room, the kiosk sells coffee, tea, snacks, salads, and sandwiches. The Common Room also has magazines and newspapers for casual reading, Ethernet ports, and a TV/VCR alcove.

RESOURCE OFFICE ON DISABILITIES

The Resource Office on Disabilities assists students with permanent and temporary disabilities. It is recommended that matriculating students in need of disability-related accommodations contact the Resource Office by June 1. Documentation may be submitted even if a specific accommodation is not requested at the time of registration. Returning students should contact the Resource Office at the beginning of each term. General inquiries are welcome from students, members of the Yale community, and the public.

Mailing address: Resource Office on Disabilities, Yale University, PO Box 208305, New Haven CT 06520-8305. Access to the Resource Office, 100 Wall Street, is through the College Street entrance to William Harkness Hall (WLH). Office hours are Monday through Friday, 8:30 am to 5 pm. The Resource Office may also be reached by e-mail (sally.esposito@yale.edu).

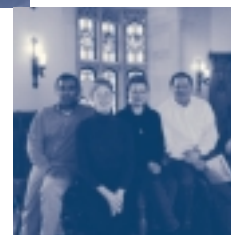
The Resource Office on Disabilities Web site provides specific information on the available services, equipment, and resources. For further information, call (203) 432-2324 or TTY/TTD at (203) 432-8250. www.yale.edu/rod

The Graduate School hosts the Dean's Lecture Series, monthly talks on current research by Yale faculty. Below: Historian Jonathan Spence spoke with students at the reception following his talk.



Graduate School-sponsored workshops and forums give students useful professional experience.

Working At Teaching facilitators plan programs, like a forum on the academic marketplace, held recently.



FINANCIAL INFORMATION

TUITION AND LIVING COSTS

In academic year 1999–2000 tuition for full-time study is \$22,330. This rate is expected to increase in subsequent years. PH.D. candidates are charged four years of full tuition (or proportionately less if all degree requirements are completed in less than four continuous years). Thereafter students are charged a modest continuing registration fee each term until the dissertation is submitted or the terminal date is passed.

We estimate that in 1999–2000, a single student will need \$12,875, exclusive of tuition, to meet academic-year living costs. Students with dependents should plan on proportionately higher costs. Estimates of living costs for the 2000–2001 academic year will increase at approximately the rate of inflation.

FINANCIAL ASSISTANCE

To help students meet educational and living costs, the Graduate School provides substantial financial assistance to the majority of those enrolled in PH.D. programs. All applicants to PH.D. programs are automatically considered for financial aid unless they indicate that they have available resources that will be sufficient to pay for tuition and maintenance for the duration of their educational program (normally four to six years). In practice, almost all PH.D. students receive financial aid that provides full tuition and a stipend for a minimum of four to five years. In many instances, a portion of this financial aid comes from outside fellowships.


The nature of financial assistance varies among the divisions and departments. Financial support will, in most cases, be derived from a combination of the types described below.

Most students in terminal master's programs and in the Division of Special Registration are self supported. Applicants to these programs may apply for financial assistance unless they will have resources available, including personal resources, gifts, loans, and outside fellowships, sufficient to pay for tuition and maintenance for the duration of their educational program (normally one to two years).

Yale University Fellowships. The Graduate School awards Yale University Fellowships ranging from partial tuition to full tuition plus full stipend in most departments. University Fellowships are awarded at admission to entering students and are based primarily on merit.



The Office of Teaching Fellow Preparation and Development and Working At Teaching help students become effective and confident teachers.



My colleagues and I have gone to the theater and opera with our students and dined out with them. We regularly have working lunches with graduate students, and whenever I take a guest speaker to Mory's I always invite my students.

PAUL KENNEDY, PROFESSOR OF HISTORY

Teaching Fellowships. Teaching fellowships are available in most departments and are normally combined with other fellowships to establish a four- to five-year pattern of support. In cooperation with the academic departments, the Graduate School attempts to provide teaching opportunities sufficient to enhance graduate education but not so numerous as to prevent completion of the PH.D. within six years.

Research Assistantships and Traineeships. Research assistantships and traineeships (U.S. citizenship required) are available to students enrolled in the science and biomedical departments. Research and training appointments are usually combined with Yale University Fellowships and teaching fellowships to provide a six-year pattern of support. Research assistantships are also available in other academic divisions but do not typically constitute the primary source of support.

Fellowships for Minority Americans. The Graduate School has initiated a new fellowship program for underrepresented minority Americans. Separate application is not necessary, because all successful minority applicants in eligible departments will be considered.

University Dissertation Fellowships. The Graduate School offers University Dissertation Fellowships to all eligible students in the humanities and social sciences who are at an advanced stage of dissertation preparation, normally in the fifth or sixth year of study.

National Fellowships. All applicants for admission are strongly urged to compete for outside fellowships which can be used at Yale. These fellowships are sponsored by both public and private agencies and are often more generous than those awarded by the University. In addition to their financial advantages, distinction is conferred on a student who wins an award in a national competition. The Graduate School permits students to hold outside awards in conjunction with Yale University Fellowships up to combined levels that are higher than the normal stipend maximum. The McDougal Center maintains a library of fellowship information; incoming students seeking external aid are advised to consult it on arrival in New Haven.

Some important national fellowship competitions are: (A) The Mellon Fellowships in the Humanities, administered by the Woodrow Wilson National Fellowship Foundation, PO Box 288, Princeton NJ 08540, which are available to college seniors or recent college graduates who wish to begin graduate study. Students are nominated by faculty in November; nominees apply in December. www.woodrow.org/mellon



The Graduate School at Yale welcomes your interest and application. If you want more information, please visit our Web site at www.yale.edu or call the Office of Graduate Admissions, (203) 432-2771.

(B) The National Science Foundation Graduate Fellowships, Washington DC 20550, which are available to applicants for admission and first-year graduate students. The deadline for application is in late November. www.ehr.nsf.gov/grfp.htm

(C) The Javits Fellowships; application can be obtained by writing to U.S. Department of Education, Jacob K. Javits Fellowship Program, Office of Postsecondary Education, Washington DC 20202-5251.

(D) The Howard Hughes Medical Institute Fellowships for students in the biological sciences. For applications, write to Howard Hughes Medical Institute, 4000 Jones Bridge Road, Chevy Chase MD 20815-6789. E-mail at infofell@nas.edu

Federal and Non-Federal Student Loans. Loans administered by the University are available to citizens and permanent residents of the U.S. The types of loans and amounts a student is eligible to borrow are based entirely on financial need as determined by federal formula. Students who plan to supplement their financial resources with federal or non-federal loans should try to keep their borrowing to a minimum in order to avoid unreasonably large repayments after graduation. In particular, students with dependents or with special medical expenses should consider carefully whether they will have sufficient income to meet their needs, as the University cannot guarantee unlimited loan funds.

Applicants should not initiate a loan application until after they have been admitted, and then only if the amount of financial aid awarded at the time of admission, along with other personal resources, is insufficient to support tuition and living costs. Many schools require applicants to complete the Free Application for Federal Student Aid (FAFSA) prior to admission. Applicants wishing to direct the results of the FAFSA analysis to the Yale Graduate School may do so. The Graduate School Title IV code is 001426. Information about obtaining and completing the FAFSA application is at www.fafsa.ed.gov/

DEGREES BY DEPARTMENT AND PROGRAM

Application to a master's program may be made only to those departments or programs in the following list that indicate an M.A. or M.S. For all other departments, application must be made to a Ph.D. program. In some departments and programs, you may apply either to a terminal master's program or to a Ph.D. program. If your final objective at Yale is a Ph.D. in the same academic field, you should apply directly to the Ph.D. program.

Unless otherwise noted, the GRE General Test is required. Satisfactory TOEFL scores are required for all applicants whose native language is not English.

DGS OFFICE

493 College
(203) 432-1170

MAILING ADDRESS

PO Box 203388
New Haven CT 06520-3388

DGS OFFICE

LCIAS 142, 34 Hillhouse
african.studies@yale.edu
www.yale.edu/ycias/african
(203) 432-3436

MAILING ADDRESS

PO Box 208206
New Haven CT 06520-8206

DGS OFFICE

HGS 231
(203) 432-1186

MAILING ADDRESS

PO Box 208236
New Haven CT 06520-8236

African American Studies Combined Ph.D.

FIELDS OF STUDY In this combined program students are enrolled jointly in African American Studies and one of the following participating departments/programs: American Studies, Anthropology, English, French, History, History of Art, Italian Language and Literature, Political Science, Psychology, Religious Studies, Sociology, or Spanish and Portuguese.

GRADUATE FACULTY 30

STUDENTS In residence 38; average in entering class 6

SPECIAL ADMISSIONS REQUIREMENTS Strong undergraduate preparation in a discipline related to African American studies; writing sample; description of the fields of interest to be pursued in a combined degree. On the application for admission, you must specify African American Studies and one of the participating departments/programs listed above.

African Studies M.A.

FIELDS OF STUDY African Studies considers the arts, history, cultures, languages, literatures, politics, religions, and societies of Africa, as well as issues concerning development, health, and the environment.

GRADUATE FACULTY 25

STUDENTS In residence 7; average in entering class 4

SPECIAL ADMISSIONS REQUIREMENTS Stated reason for wishing to study Africa.


American Studies M.A. and Ph.D.

FIELDS OF STUDY American literature, history, arts and material culture, philosophy, cultural theory, social sciences.

GRADUATE FACULTY 30, including faculty from various departments participating in program.

STUDENTS In residence 60; average in entering class 7

SPECIAL ADMISSIONS REQUIREMENTS Writing sample: any recent written work of applicant's choice, preferably academic, not more than 20 pages.



As scholars, we want to cultivate an independence of intellect and develop as critical and creative thinkers—we want to ask our own questions and form our own approaches to our own topics. And all this has been possible, and rewardingly so, for me at Yale.

ELIZABETH B. CRIST, MUSIC

ROBERT TURNER, Molecular
Biophysics and Biochemistry



DGS OFFICE
51 Hillhouse
(203) 432-3665 or (203) 432-3700

MAILING ADDRESS
PO Box 208277
New Haven CT 06520-8277

DGS OFFICE
AKW, 51 Prospect
(203) 432-1246

DGS OFFICE
BC 405, 15 Prospect
www.eng.yale.edu/
(203) 432-2210

MAILING ADDRESS
PO Box 208284
New Haven CT 06520-8284

DGS OFFICE
51 Hillhouse
(203) 432-3772

MAILING ADDRESS
PO Box 208277
New Haven CT 06520-8277

DGS OFFICE
JWG 201
www.astro.yale.edu
(203) 432-3000

MAILING ADDRESS
PO Box 208101
New Haven CT 06520-8101

Anthropology Ph.D.

FIELDS OF STUDY Archaeology, including complex societies, origins and collapse of civilizations, Middle East, East Asia, Mesoamerica, Andes; physical anthropology, including primate and human evolution; primate behavior and ecology, human variation, quantitative techniques; social and cultural anthropology, including linguistic anthropology, cultural ecology, art and museum, historical anthropology, social change, urban anthropology, medical anthropology, religion, folklore, ethnomusicology, politics and economics, modes of thought, sex and gender.

GRADUATE FACULTY 30

STUDENTS In residence 44; average in entering class 10

Applied Mathematics M.A. and Ph.D.

New program to start in Fall 2000

FIELDS OF STUDY All areas of modern applied mathematics.

GRADUATE FACULTY 24

STUDENTS In residence 20 (expected); average in entering class 5 (expected)

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test encouraged.

Applied Physics Ph.D.

FIELDS OF STUDY Theoretical: condensed matter (localization, fluctuations, transport, superconductors, structural and electronic properties); plasma physics (controlled fusion, plasmas in space, wave phenomena, turbulence); atomic and laser physics (electron collisions, laser stabilization); experimental: surface science (electron spectroscopy, leed, photoemission); laser diagnostics (scattering from micro-objects, nonlinear optical interactions); condensed matter (GaAs quantum devices, tunneling, one- and two-dimensional electron physics, superconducting devices and materials, magnetic materials, crystal growth); medical physics (MRI).

GRADUATE FACULTY 24

STUDENTS In residence 28; average in entering class 6

I feel truly blessed to be part of a community of distinguished teachers and students.

Archaeological Studies M.A.

FIELDS OF STUDY An interdisciplinary program with faculty from the Departments of Anthropology, Classics, Geology and Geophysics, History of Art, and Near Eastern Languages and Civilizations.

GRADUATE FACULTY 13

STUDENTS In residence 3; average in entering class 1-2

Astronomy Ph.D.

FIELDS OF STUDY Solar and stellar astrophysics, observational and theoretical galactic astronomy, astrometry, extragalactic astronomy, radio astronomy, high energy astrophysics, cosmology.

GRADUATE FACULTY 12

STUDENTS In residence 11; average in entering class 3

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test in Physics.

ADMINISTRATIVE OFFICE
bbs@yale.edu
http://info.med.yale.edu/bbs
(203) 785-3735

MAILING ADDRESS
PO Box 208084
New Haven CT 06520-8084

Biological and Biomedical Sciences Ph.D.

FIELDS OF STUDY The Graduate School of Arts and Sciences and the School of Medicine at Yale University offer a combined interdepartmental graduate program in the Biological and Biomedical Sciences (BBS) that provides students flexible opportunities to study with and conduct thesis research with any of the more than 200 biological science faculty located at the School of Medicine and Science Hill campuses. BBS also offers the opportunity to gain firsthand experience in pharmaceutical research through an alliance with Bristol-Myers Squibb in nearby Wallingford. BBS consists of eight interest-based tracks that serve to organize research and educational activities: Biological Sciences, Cell Biology & Molecular Physiology, Genetics & Development, Immunology, Microbiology, Molecular Biophysics & Biochemistry, Neuroscience, and Pharmacological Sciences & Molecular Medicine. For the duration of their studies, all BBS students regardless of Track or receive a stipend which increases yearly (\$17,600 in 1999–2000), full tuition, health coverage, and support for travel to scientific meetings, courses, and program retreats.

GRADUATE FACULTY 225

STUDENTS In residence 316; average in entering class 65–70

SPECIAL ADMISSIONS REQUIREMENTS Relevant GRE Subject Test recommended. For the Cell Biology & Molecular Physiology and Neuroscience tracks, MCAT scores may be substituted for GRE General Test scores; in special cases, MCAT scores may also be substituted for GRE General Test scores for the Immunology track.

APPLYING TO BBS The BBS program does not use the common Graduate School application. For an application, please contact the BBS office or the BBS web site. Students applying to BBS should state on the application the one or two tracks that best represent their interests; applications will be evaluated by that track (or tracks). Affiliation does not, however, limit a student's opportunities to work with faculty or participate in training activities of the other tracks. At the end of the first year, a student selects an adviser and also a department or academic program in which he or she will take the qualifying examination (in the second year) and through which he or she will eventually be awarded a Ph.D. degree.

BIOLOGICAL SCIENCES TRACK

The Biological Sciences track is designed to provide an educational and training environment for students wishing to develop a broad, integrated perspective of biology. This track combines research training opportunities in genetics, cell biology, developmental biology, biochemistry, molecular biology, and chemical biology with a program of seminars and courses that spans and integrates those disciplines.

My affiliation with the McDougal Center has only served to heighten that sense of connectedness.

CELL BIOLOGY AND MOLECULAR PHYSIOLOGY TRACK

Training and research opportunities are concentrated in the broad interdisciplinary area of cell biology at the molecular level using systems ranging from yeast and *Drosophila* to mammals. Specific areas of interest include membrane structure and function, membrane channels and ion transport, signal transduction, molecular mechanisms of membrane transport (secretion, receptor-mediated endocytosis), folding and assembly of proteins, organelle biogenesis and physiology, cellular mechanisms of development, cell cycle, growth control, cell-cell interactions, cell-pathogen interactions, polarity in epithelial cells.



GENETICS AND DEVELOPMENT TRACK

Interdisciplinary training and research opportunities in the broad areas of genetics, development, and molecular biology. Research interests include molecular genetics of animal cells, microorganisms, and viruses, mechanisms of genetic recombination, replication, and gene expression; developmental genetics; molecular cell biology; population genetics and genetic epidemiology; gene mapping and genome analysis; biochemical genetics; oncogenes and tumor suppressor genes; and human genetics.

IMMUNOLOGY TRACK

Training and research focus on the molecular, cellular, and genetic underpinnings of immune system function and development, and on host-pathogen interactions. Specific areas of interest include T-cell development, activation and effector functions, the role of cytokines in immunoregulation, intracellular signaling and the control of transcription in lymphocytes, antigen processing and presentation, immunoglobulin and T-cell receptor gene rearrangement, immunological memory, the immunobiology of vascular endothelial cells, and B- and T-cell tolerance.

MICROBIOLOGY TRACK

An individualized training program utilizing cellular, molecular, and genetic approaches in the study of microorganisms and their effects on their hosts. Students can specialize in various areas including bacteriology, virology, microbe-host interactions, vector biology, microbial pathogenesis and parasitology, and microbial genetics, ecology, evolution, and physiology.

MOLECULAR BIOPHYSICS AND BIOCHEMISTRY TRACK

Designed to prepare students for careers as independent investigators in the broad area of molecular and structural biology. The faculty have diverse interests and are drawn from several departments, including Molecular Biophysics and Biochemistry; Molecular, Cellular, and Developmental Biology; Chemistry; and Genetics. Current areas of research include control of the cell cycle and animal development; structure and function of proteins and nucleic acids; catalytic RNA's and RNA processing; signal transduction in plants and mammals; protein folding; mechanisms of transcription, replication, transposition, and recombination; cell motility; molecular immunology; regulation of metabolism; and the application of advanced computational methods to the study of macromolecules.

NEUROSCIENCE TRACK

Offers training and research opportunities in virtually all areas of neurobiology ranging from the mathematical to the molecular to the integrative, in virtually all experimental systems ranging from *C. elegans* to *Drosophila* to mammals.

PHARMACOLOGICAL SCIENCES AND MOLECULAR MEDICINE TRACK

Recent advances in genetics, immunology, cell, and molecular biology have revealed the mechanistic underpinnings of many diseases. This track offers the opportunity to use tools from each of these disciplines in an integrative approach to investigate the mechanisms of disease pathogenesis and apply these findings to diagnosis and treatment. Specific areas of investigation include cancer and viral diseases, atherosclerosis, inflammation and wound healing, neurophysiology, psychopharmacology, disorders of coagulation, and immune and genetic disorders.

DGS OFFICE

60 College
eph@yale.edu
<http://info.med.yale.edu/eph>
(203) 785-2844

MAILING ADDRESS

PO Box 208034
New Haven CT 06520-8034

DGS OFFICE

SHM C-443, 333 Cedar
<http://info.med.yale.edu/cellbio/>
(203) 785-4302

MAILING ADDRESS

PO Box 208002
New Haven CT 06520-8002

DGS OFFICE

SHM B-147, 333 Cedar
bbs.cbmp@yale.edu
<http://info.med.yale.edu/cmphysiol/>
(203) 737-2215

MAILING ADDRESS

PO Box 208026
New Haven CT 06520-8026

DGS OFFICE

DL 239, 10 Hillhouse
www.eng.yale.edu/
(203) 432-4250

MAILING ADDRESS

PO Box 208267
New Haven CT 06520-8267

DGS OFFICE

SCL, 225 Prospect
www.yale.chem.edu/
(203) 432-3915

MAILING ADDRESS

PO Box 208107
New Haven CT 06520-8107

Biostatistics M.S.

FIELDS OF STUDY This two-year program offers broad course-based training in biostatistics and individualized research experiences culminating with the submission of a master's thesis. The program began in the fall of 1999 and is expected to grow in size.

GRADUATE FACULTY 13

STUDENTS In residence 1; average in entering class 4

Cell Biology Ph.D.

FIELDS OF STUDY Membrane biology of eukaryotic cells, intracellular transport of membrane and secretory proteins, receptor-mediated endocytosis, generation of transmembrane signals, epithelial cell polarity and the extracellular matrix, protein folding, membrane function in the nervous system, developmental genetics, virus-cell interactions, cell biology of protozoan parasites, cell biology of the immune response, cell biology of bone remodelling, and of the cytoskeleton.

SPECIAL ADMISSIONS REQUIREMENTS Admission to this program is through an interest-based track, usually the Cell Biology and Molecular Physiology track, in the combined program in Biological and Biomedical Sciences (BBS); see above. MCAT scores may be substituted for the GRE General Test; GRE Subject Test required.

Cellular and Molecular Physiology Ph.D.

FIELDS OF STUDY Membrane structure and function, membrane channels and ion transport, signal transduction, molecular mechanisms of membrane transport, folding and assembly of proteins, organelle biogenesis and physiology, cellular mechanisms of development, cell cycle, growth control, cell-cell interactions, cell-pathogen interactions, polarity in epithelial cells.

SPECIAL ADMISSIONS REQUIREMENTS Admission to this program is through an interest-based track, usually the Cell Biology and Molecular Physiology track, in the combined program in Biological and Biomedical Sciences (BBS); see above. MCAT scores may be substituted for the GRE General Test.

Chemical Engineering Ph.D.

FIELDS OF STUDY Combustion, separation processes, catalysis, statistical mechanics of adsorption, high-temperature chemical reaction engineering, convective heat and mass transfer, chromatography, biochemical and biomedical engineering, molecular beams, aerosol science and technology, surface science, and biotechnology.

GRADUATE FACULTY 21

STUDENTS In residence 17; average in entering class 5

Chemistry Ph.D.

FIELDS OF STUDY Chemical physics, inorganic chemistry, physical biochemistry, organic chemistry, theoretical chemistry, bio-inorganic chemistry, bio-organic chemistry, synthetic-organic chemistry.

GRADUATE FACULTY 25

STUDENTS In residence 135; average in entering class 25-30

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test. Application is made directly to the Department of Chemistry and not through the Graduate School. Contact the Department of Chemistry to obtain the appropriate forms.

DGS OFFICE
Phelps 402
www.yale.edu/classics/
(203) 432-0977

MAILING ADDRESS
PO Box 208266
New Haven CT 06520-8266

Classics Ph.D.

FIELDS OF STUDY Classical philology, with special emphasis on Greek and Latin literature, ancient history, ancient philosophy, or ancient art and archaeology. Special fields may be studied either within the department or as part of a combined program with the Departments of Comparative Literature, History, Philosophy, or the History of Art.

COMBINED DEGREE PROGRAMS Ancient history, with the Department of History; classical art and archaeology, with the Department of the History of Art; classics and comparative literature; classics and philosophy; classics and Renaissance studies. Program materials and admissions information are available from the director of graduate studies in each department.

GRADUATE FACULTY 17

STUDENTS In residence 22; average in entering class 4

SPECIAL ADMISSIONS REQUIREMENTS Writing sample; 3–4 years of college training in one classical language and 2–3 in the other; for students in art and archaeology, minimum of 2 years in one language and 1 year in the other. All applicants should contact the Classics department directly to request the additional application form required by the department.

Teaching graduate students means having an ongoing dialogue with our next generation of colleagues.

DGS OFFICE
Connecticut Hall 106
(203) 432-2760

MAILING ADDRESS
PO Box 208299
New Haven CT 06520-8299

Comparative Literature Ph.D.

FIELDS OF STUDY Theory of literature and its interactions with adjacent fields (philosophy, culture, psychology, law, etc.); transnational and comparative phenomena, such as periods, trends, and genres. The Ph.D. degree qualifies the candidate to teach comparative literature as well as the national literature(s) of his or her specialization.

GRADUATE FACULTY 10, as well as faculty from adjacent departments.

STUDENTS In residence 50; average in entering class 5–7

SPECIAL ADMISSIONS REQUIREMENTS B.A., preferably in literature or in an interdepartmental major that includes literature; advanced knowledge of two languages; 10–20 page writing sample.

Computer Science M.S. and Ph.D.

FIELDS OF STUDY Artificial intelligence (vision, robotics, planning, computational neuroscience); programming languages and systems (functional programming, parallel languages and architectures, programming environments, formal semantics, software engineering, neural networks, efficient compilation of high-level languages, high-performance computer architecture, interaction of compilers and languages with modern architectures); scientific computing (numerical linear algebra, numerical solution of partial differential equations, mathematical software, parallel algorithms); theory of computation (algorithms and data structures, complexity, distributed systems, learning, logics of knowledge, online algorithms, graph algorithms, geometric algorithms, circuit complexity, fault tolerance, reliable communication, cryptography); and topics of discrete mathematics with application to computer science (combinatorics, graph theory, combinatorial optimization).

GRADUATE FACULTY 19

STUDENTS In residence 31; average in entering class 10

SPECIAL ADMISSIONS REQUIREMENTS Pertinent GRE Subject Test required; strong preparation in mathematics, engineering, or science; competence in programming.

DGS OFFICE
AKW 309, 51 Prospect
cs-admissions@cs.yale.edu
www.cs.yale.edu/
(203) 432-1170

MAILING ADDRESS
PO Box 208285
New Haven CT 06520-8285

DGS OFFICE

HGS 308
www.yale.edu/eall/
(203) 432-2860

MAILING ADDRESS

PO Box 208236
New Haven CT 06520-8236

East Asian Languages and Literatures Ph.D.

FIELDS OF STUDY Fields for doctoral study are Chinese literature and Japanese literature. Although primary emphasis is on East Asian subjects, the department welcomes applicants who are seeking to integrate their interests in Chinese or Japanese literature with such interdisciplinary studies as history, history of art, linguistics, religious studies, comparative literature, literary theory and criticism, and the social sciences.

GRADUATE FACULTY 8

STUDENTS In residence 15–20; average in entering class 4–5

SPECIAL ADMISSIONS REQUIREMENTS Applicants in Chinese or Japanese are required to have completed at least three years of study, or the equivalent, of either Chinese or Japanese. Applicants in Chinese are expected to have completed at least one year of literary Chinese; applicants in Japanese are expected to have completed at least one year of literary Japanese.

East Asian Studies M.A.

FIELDS OF STUDY Language, literature, history, cultural traditions, and societies of China and Japan.

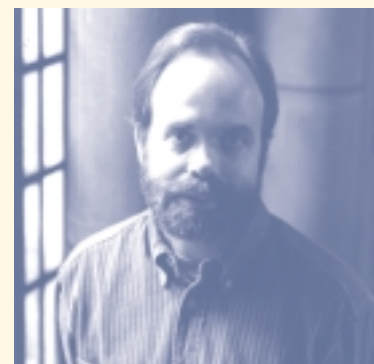
JOINT DEGREE PROGRAM Students also admitted to the School of Management may receive a joint degree in East Asian Studies (M.A.) and in Business Administration (M.B.A.) Normally a joint degree requires a three-year course of study.

GRADUATE FACULTY 20

STUDENTS In residence 10; average in entering class 8–12

SPECIAL ADMISSIONS REQUIREMENTS Advanced Chinese or Japanese.

THOMAS CROW, Chair, History of Art



By keeping us at the edge of what we're doing, graduate students play a big part in advancing the discipline.

DGS OFFICE

OML 401
www.eeb.yale.edu/
gradstudies.shtml/
(203) 432-3837

MAILING ADDRESS

PO Box 208104
New Haven CT 06520-8106

Ecology and Evolutionary Biology Ph.D.

FIELDS OF STUDY All aspects of comparative biology, ecology and evolutionary biology emphasizing molecular evolution, phylogenetics, theoretical and computational biology, bioinformatics, conservation and population ecology. Faculty research interests span multiple levels of biological organization, ranging from the origins of novel molecular function to the study of global interaction between climatic and biotic change. Graduate training emphasizes the interplay of empirical laboratory and field studies with theoretical and computational explorations necessary to address fundamental issues in ecology, evolution, genomics and development. Advanced training is offered in the following core areas: molecular evolution; theoretical biology; phylogenetics and systematic theory; bioinformatics; conservation biology; population ecology; macroevolution and paleobiology (in conjunction with the Department of Geology & Geophysics). In addition to faculty with primary appointments in EEB, students have access to a vast array of faculty and laboratories through integrated interdepartmental programs. The department also offers extramural programs in conjunction with the American Museum of Natural History and the Cary Arboretum.

GRADUATE FACULTY 8

STUDENTS In residence 18; average in entering class 4



DGS OFFICE
28 Hillhouse
www.econ.yale.edu/
(203) 432-3575

MAILING ADDRESS
PO Box 208268
New Haven CT 06520-8268

DGS OFFICE
BC, 15 Prospect
www.eng.yale.edu/
(203) 432-4300

MAILING ADDRESS
PO Box 208267
New Haven CT 06520-8267

DGS OFFICE
10 Hillhouse
www.eng.yale.edu/
(203) 432-4250

MAILING ADDRESS
PO Box 208267
New Haven CT 06520-8267

DGS OFFICE
LC, 63 High
(203) 432-2233

MAILING ADDRESS
PO Box 208302
New Haven CT 06520-8302

DGS OFFICE
60 College
eph@yale.edu
<http://info.med.yale.edu/eph/>
(203) 785-2279

MAILING ADDRESS
PO Box 208034
New Haven CT 06520-8034

Economics Ph.D.

FIELDS OF STUDY Economic theory, econometrics, mathematical economics; economic history; market organization and public policy; labor economics; macroeconomics; financial economics; economics of the public sector; international trade and finance; economic development; economic systems; demography.

JOINT DEGREE PROGRAM Yale Law School. Specific information about the joint PH.D./J.D. may be obtained from the director of graduate studies in the Economics department or from the admissions office at Yale Law School.

GRADUATE FACULTY 48

STUDENTS In residence 125; average in entering class 22

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test.

Electrical Engineering Ph.D.

FIELDS OF STUDY Micro electronics, photonics, semiconductors, control systems, neural networks, signal processing, communications, computer vision, robot navigation, computer engineering, VLSI systems.

GRADUATE FACULTY 20

STUDENTS In residence 51; average in entering class 12

Engineering and Applied Science M.S. and Ph.D.

FIELDS OF STUDY See separate entries under Applied Physics, Chemical Engineering, Electrical Engineering, Mechanical Engineering. In addition to the four department-based programs, Engineering and Applied Science offers concentrations in Biomedical Engineering and Environmental Engineering. Applicants to these concentrations should list Engineering and Applied Science as the department/program name and write in the name of the concentration.

GRADUATE FACULTY 68

STUDENTS In residence 110; average in entering class 25

English Language and Literature M.A. and Ph.D.

FIELDS OF STUDY All fields of English and American literature.

GRADUATE FACULTY 50

STUDENTS In residence 80; average in entering M.A. class 1–2; average in entering PH.D. class 10

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test; writing sample of 5–15 pages; for PH.D. applicants, proficiency in at least two of required languages.

Epidemiology and Public Health Ph.D.

FIELDS OF STUDY Biostatistics, epidemiology of microbial diseases, microbiology, epidemiology of chronic diseases; genetic epidemiology; psychosocial and psychiatric epidemiology; medical entomology; environmental health sciences, health policy and administration.

GRADUATE FACULTY 50

STUDENTS In residence 44; average in entering class 10

DGS OFFICE

BML 342
bbs.molmed@yale.edu
[http://info.med.yale.edu/
pathol/training/gtp.htm/](http://info.med.yale.edu/pathol/training/gtp.htm/)
(203) 785-3624

MAILING ADDRESS

PO Box 208023
New Haven CT 06520-8023

DGS OFFICE

fesinfo@yale.edu
www.yale.edu/forestry
(203) 432-5100

MAILING ADDRESS

205 Prospect Street
New Haven CT 06511

DGS OFFICE

82-90 Wall, 3d fl
french@yale.edu
www.yale.edu/french
(203) 432-4900

MAILING ADDRESS

PO Box 208251
New Haven CT 06520-8251

DGS OFFICE

SHM I-313, 333 Cedar
<http://info.med.yale.edu/>
(203) 785-5846

MAILING ADDRESS

PO Box 208005
New Haven CT 06520-8005

Experimental Pathology Ph.D.

FIELDS OF STUDY Molecular and cellular basis of cancer; signal transduction in control of development and cell cycle; biology; biochemistry, and pathology of the plasma membrane; cells, molecules, and response to stimuli of connective tissue; interaction of viruses with animal cells; pathology of organ systems; somatic cell genetics and birth defects; biology of endothelial and epithelial cells; inflammation.

SPECIAL ADMISSIONS REQUIREMENTS GRE General Test or MCAT required.

Application to this program is through an interest-based track, usually the Pharmacological Sciences and Molecular Medicine track, in the combined program in the Biological and Biomedical Sciences (BBS); see above.

Forestry and Environmental Studies Ph.D.

FIELDS OF STUDY Tree physiology and anatomy, forestry and natural resource economics, forest ecology and nutrient cycling, ecosystem ecology, social ecology and sociology of planning, leisure and recreation, environmental history, biometry and mensuration, forest management, tropical resources, agroforestry, tropical forestry population ecology, environmental biophysics and meteorology, silviculture, stand development, forest pathology, and air pollution impact, forest soils, nitrogen fixation, environmental law, environmental politics, human dimensions of wildlife, environmental and resource policy, wildlife ecology, entomology, environmental chemistry, hydrology and water resource management.

GRADUATE FACULTY 32

STUDENTS In residence 50; average in entering class 12

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test optional.

French Ph.D.

FIELDS OF STUDY French literature, criticism, and theory from the early Middle Ages to the present; the French-language literatures of Africa, the Caribbean, and the Maghreb.

COMBINED DEGREE PROGRAM French and African American Studies.

GRADUATE FACULTY 14

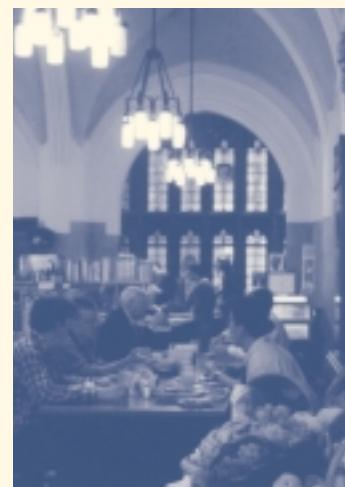
STUDENTS In residence 30; average in entering class 6

SPECIAL ADMISSIONS REQUIREMENTS English, French, and one other foreign language; 20-page writing sample in French.

Genetics Ph.D.

FIELDS OF STUDY Molecular genetics, including studies of chromosome structure, genetic recombination, viral genetics, and the regulation of gene expression; genome mapping; cellular and developmental genetics, including organ and organelle biogenesis and the genetic control of membrane transport; oncogenes and tumor suppressor genes, medical genetics, especially the analysis of fundamental defects in heritable diseases; population and quantitative genetics.

SPECIAL ADMISSIONS REQUIREMENTS Admission to this program is through an interest-based track, usually the Genetics and Development track, in the combined program in Biological and Biomedical Sciences (BBS), see above. Pertinent GRE subject tests required.



DGS OFFICE
KGL 301
www.yale.edu/geology
(203) 432-3124

MAILING ADDRESS
PO Box 208109
New Haven CT 06520-8109

DGS OFFICE
WLH 303
german@yale.edu
www.yale.edu/german/
(203) 432-0781

MAILING ADDRESS
PO Box 208210
New Haven CT 06520-8210

Geology and Geophysics Ph.D.

FIELDS OF STUDY Geochemistry; geophysics; structural geology; tectonics; paleontology; paleoecology; petrology; oceans and atmosphere.

GRADUATE FACULTY 21

STUDENTS In residence 25; average in entering class 5

SPECIAL ADMISSIONS REQUIREMENTS Pertinent GRE Subject Test encouraged.

Germanic Languages and Literatures M.A. and Ph.D.

FIELDS OF STUDY German literature and culture, medieval Germanic literatures, literary theory, literary sociology, film.

GRADUATE FACULTY 8

STUDENTS In residence 20; average in entering class 3

SPECIAL ADMISSIONS REQUIREMENTS Thorough preparation in German language and general acquaintance with German literature and history. Writing sample of about 20 pages.

The wonderful thing about mentoring graduate students and being involved in their training is

DGS OFFICE
HGS 237
(203) 432-1366

MAILING ADDRESS
PO Box 208324
New Haven CT 06520-8324

History M.A. and Ph.D.

FIELDS OF STUDY Ancient, medieval, early modern, and modern Europe (including Britain, Russia and Eastern Europe); United States, Latin America, Asia, Middle East, Africa; Jewish history; diplomatic, environmental, ethnic, intellectual, labor, military, political, religious, social, medical, and women's history.

COMBINED DEGREE PROGRAMS History and African American Studies; History and Renaissance Studies. Program materials and admissions information are available from the director of graduate studies in each department.

JOINT DEGREE PROGRAM J.D./PH.D., with Yale Law School. Information about this program is available from the director of graduate studies in the History department or from the admissions office at Yale Law School.

GRADUATE FACULTY 52

STUDENTS In residence 120; average in entering class 24

SPECIAL ADMISSIONS REQUIREMENTS All applicants must submit a short essay (2–3 pages) on the following: Which work of historical scholarship that you have read do you wish you had written, and why?

History of Art Ph.D.

FIELDS OF STUDY Greek and Roman, Medieval and Byzantine, Renaissance, Baroque, Eighteenth-, Nineteenth-, and Twentieth-Century European, African, African American, American, British, Chinese, Japanese, Pre-Columbian, Film.

COMBINED DEGREE PROGRAMS History of Art and African American Studies; History of Art and Medieval Studies; History of Art and Renaissance Studies. Program materials are available from the director of graduate studies in each department.

GRADUATE FACULTY 24

STUDENTS In residence 60; average in entering class 12

SPECIAL ADMISSIONS REQUIREMENTS Reading knowledge of German and French preferred; for applicants in Chinese art, Chinese, Japanese, and one Western language; for applicants in Japanese art, Japanese, Chinese, and one Western language.

DGS OFFICE
56 High, Rm 103
www.yale.edu/arthistory
(203) 432-2667

MAILING ADDRESS
PO Box 208272
New Haven CT 06520-8272

DGS OFFICE
SHM L-132
www.med.yale.edu/histmed/
(203) 785-4338

MAILING ADDRESS
PO Box 208015
New Haven CT 06520-8015

DGS OFFICE
Lauder Hall 409
bbs.immunol@yale.edu
http://info.med.yale.edu/
immuno
(203) 785-3857

MAILING ADDRESS
PO Box 308011
New Haven CT 06510-8011

History of Medicine and Science M.A. and Ph.D.

FIELDS OF STUDY History of medicine, history of public health, history of life sciences, history of physics and chemistry. Specialties include Arabic science and medicine; American medicine; disease, therapeutics, psychiatry, drug abuse; women in science and medicine; Asian science and medicine.

GRADUATE FACULTY 3
STUDENTS In residence 15; average in entering class 3

Immunobiology Ph.D.

FIELDS OF STUDY T-cell development, activation and effector functions, the role of cytokines in immunoregulation, intracellular signaling and the control of transcription in lymphocytes, antigen processing and presentation, immunoglobulin and T-cell receptor gene rearrangement, immunological memory, the immunobiology of vascular endothelial cells, and B-and T-cell tolerance.

SPECIAL ADMISSIONS REQUIREMENTS Writing sample of 500–1,000 words. GRE Subject Test is recommended. Admission to this program is through an interest-based track, usually the Immunology track, in the combined program in Biological and Biomedical Sciences (BBS); see above.

sharing their joy of discovery. It's an exciting process to be involved in. It's what science is all about.

DGS OFFICE
27 Hillhouse
international.relations@yale.edu
(203) 432-3632

MAILING ADDRESS
PO Box 208269
New Haven CT 06520-8269

DGS OFFICE
34 Hillhouse
international.relations@yale.edu
(203) 432-3418

MAILING ADDRESS
PO Box 208206
New Haven CT 06520-8206

International and Development Economics (IDE) M.A.

FIELDS OF STUDY Economic growth and development; international trade and finance; related theoretical and applied fields.

GRADUATE FACULTY 48
STUDENTS In residence 28; average in entering class 20
SPECIAL ADMISSIONS REQUIREMENTS Program primarily intended for members of government ministries, central banks, and planning agencies who deal with financial administration in, and economic relations with, developing countries, and who are sponsored by their home institutions or supported by personal funds. A number of students are associated with academic institutions as well. Yale fellowship funds are not available. Candidates should have had previous training in economics equivalent to an undergraduate major in economics.

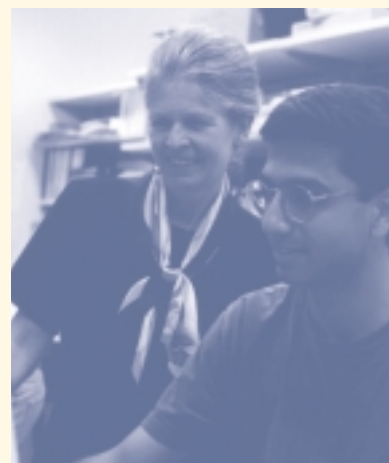
International Relations M.A.

FIELDS OF STUDY Multidisciplinary approach to study of international relations with core disciplines of economics, history, and political science. Includes courses in other social sciences and professions such as anthropology, sociology, law, management, forestry and environmental studies, and public health.

GRADUATE FACULTY 40 in core subjects; additional 100 available for specialized subjects.

STUDENTS In residence 60–65; average in entering class 30–35

SPECIAL ADMISSIONS REQUIREMENTS English fluency required for foreign students (satisfactory TOEFL scores must be submitted); second language recommended for native English speakers. Relevant work experience preferred. Applicants should submit a résumé and a personal statement with their application. Entering students are required to have taken introductory courses in micro- and macroeconomics prior to matriculation.



JOAN STEITZ, Professor of Molecular Biophysics and Biochemistry

DGS OFFICE

LCI 808
keith.joiner@yale.edu
<http://info.med.yale.edu/>
(203) 785-4140

MAILING ADDRESS

PO Box 208022
New Haven CT 06520-8022

DGS OFFICE

82-90 Wall, Rm 426
(203) 432-0595

MAILING ADDRESS

PO Box 208311
New Haven CT 06520-8311

DGS OFFICE

HGS 318
www.yale.edu/linguist/
(203) 432-2450

MAILING ADDRESS

PO Box 208236
New Haven CT 06520-8236

DGS OFFICE

55 Hillhouse
(203) 432-3955

MAILING ADDRESS

PO Box 208200
New Haven CT 06520-8200

Investigative Medicine Ph.D.

New program to begin in July 2000.

FIELDS OF STUDY This program is designed to develop a broad knowledge base, analytical skill, creative thinking, and the hands-on experience demanded of clinical researchers devoted to disease-oriented and patient-oriented investigation. Dissertation research is conducted either in the laboratory setting, in a clinical research center, or using modern concepts in quantitative methods and clinical study design to study the pathophysiology, etiology, diagnosis, prognosis, or therapy of disease. Unlike most programs in the Graduate School, this one starts in July 2000.

SPECIAL ADMISSIONS REQUIREMENTS Applicants must have an M.D. degree. Most successful applicants will have completed two or more years of post graduate clinical training. Applications will typically be made concurrently with application for subspecialty training in a clinical department at Yale. Submission of test scores from the National Board of Medical Examiners is required. GRE scores are not required. If available, the American Board of Internal Medicine, Pediatrics, Neurology, or other relevant subspecialty discipline examinations should also be submitted. Applications must be submitted no later than December 1, 1999. Applications for subspecialty training can be obtained from individual departments or sections of interest. Addresses and information are available at <http://info.med.yale.edu>

Italian Language and Literature Ph.D.

FIELDS OF STUDY All periods of Italian language and its literature; interdisciplinary work is encouraged in such fields as history, rhetoric, critical theory, art history, music, religious studies, and philosophy.

COMBINED DEGREE PROGRAMS Italian and African American Studies; Italian and Renaissance Studies. Program materials and admissions information are available from the director of graduate studies in each department.

GRADUATE FACULTY 5

STUDENTS In residence 19; average in entering class 3-4

SPECIAL ADMISSIONS REQUIREMENTS It is strongly recommended that candidates for admission acquire proficiency in Latin, a second Romance language, and a non-Romance language (preferably German) before matriculation. Writing sample required.

Linguistics Ph.D.

FIELDS OF STUDY General and theoretical linguistics; brain and language; experimental phonetics; historical linguistics; Indo-European, Indo-Iranian, Chinese linguistics.

GRADUATE FACULTY 8

STUDENTS In residence 24; average in entering class 4

SPECIAL ADMISSIONS REQUIREMENTS Special language requirements for some programs; see departmental brochure for details.

Management Ph.D.

FIELDS OF STUDY Current fields include accounting, financial economics, and marketing. Other management fields may be added in subsequent years.

GRADUATE FACULTY 15, plus participating faculty from School of Management.

STUDENTS In residence 14; average in entering class 5

SPECIAL ADMISSIONS REQUIREMENTS GMAT may be accepted in place of the GRE General Test in some cases.

DGS OFFICE

DL 434, 10 Hillhouse
math@math.yale.edu
www.math.yale.edu/
(203) 432-4172

MAILING ADDRESS

PO Box 208283
New Haven CT 06520-8283

DGS OFFICE

DL 239, 10 Hillhouse
www.eng.yale.edu/
(203) 432-4250

MAILING ADDRESS

PO Box 208267
New Haven CT 06520-8267

DGS OFFICE

53 Wall, Rm 324
(203) 432-0672

MAILING ADDRESS

PO Box 208313
New Haven CT 06520-8313

DGS OFFICE

BCCM 354
bbs.micro@yale.edu
http://info.med.yale.edu/
bbs/micro.html
(203) 737-2404

MAILING ADDRESS

PO Box 208034
New Haven CT 06520-8034

Mathematics M.S. and Ph.D.

FIELDS OF STUDY Real analysis, complex analysis, functional analysis, classical and modern harmonic analysis; linear and nonlinear partial differential equations; dynamical systems and ergodic theory; homological algebra, homotopy theory; the theory of fibre bundles, finite and infinite groups, Lie algebras, Lie groups and discrete subgroups; representation theory; automorphic forms, L-functions; algebraic number theory and algebraic geometry; mathematical physics, relativity; differential topology and algebraic K-theory; numerical analysis; combinatorics and discrete mathematics.

GRADUATE FACULTY 30

STUDENTS In residence 37; average in entering class 8–10

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test.

Mechanical Engineering Ph.D.

FIELDS OF STUDY Mechanics of fluids: acoustics and bioeffects of ultrasound, bulk and surface properties of liquids (including metastable liquids, radiation-induced bubble formation, and surfactant-induced effects); dynamics and stability of drops and bubbles; experimental, theoretical, and computational studies of turbulence; chaos; fractals; aerodynamics; kinetic theory of gases and mixtures; electrospray theory and characterization; combustion and flames; computational methods for fluid dynamics and reacting flows; laser diagnostics of reacting and non-reacting flows; atmospheric turbulence, climate, theoretical and laboratory modeling of large-scale ocean circulation; mechanics of solids: micromechanics of materials; fatigue, fracture, mechanical metallurgy; texture analysis; experimental stress analysis; mechanical properties of inelastic solids and of granular materials; dynamical systems; behavior of material under extreme environmental conditions; biomechanics; wrist, hand, and spinal mechanics; impact, mechanics of muscle, joint stability.

GRADUATE FACULTY 20

STUDENTS In residence 26; average in entering class 10

Medieval Studies M.A. and Ph.D.

FIELDS OF STUDY Courses on medieval civilization in such fields as Classics, English Language and Literature, French, Germanic Languages and Literatures, History, History of Art, Italian, Linguistics, Music, Near Eastern Languages and Civilizations, Philosophy, Religious Studies, Slavic Languages and Literatures, and Spanish and Portuguese.

GRADUATE FACULTY 33, from various departments participating in program.

STUDENTS In residence 12; average in entering class 1–3

SPECIAL ADMISSIONS REQUIREMENTS B.A. degree in relevant field; appropriate foreign language preparation; GRE Subject Test in applicant's strongest field; writing sample of 10–20 pages.

Microbiology Ph.D.

FIELDS OF STUDY This program utilizes cellular, molecular, and genetic approaches in the study of microorganisms and their effects on their hosts. Students can specialize in various areas including bacteriology; virology; microbe-host interactions; vector biology; microbial pathogenesis and parasitology; and microbial genetics ecology, evolution, and physiology.

SPECIAL ADMISSIONS REQUIREMENTS Admission to this program is through an interest-based track, usually the Microbiology track, in the combined program in Biological and Biomedical Sciences (BBS); see above.

MAHZARIN BANAJI,
Professor and DUS, Psychology



DGS OFFICE

JWG 301
mbb.grad@yale.edu
www.mbb.yale.edu/
(203) 432-5662

MAILING ADDRESS

PO Box 208114
New Haven CT 06520-8114

DGS OFFICE

KBT 102
www.biology.yale.edu/
(203) 432-3538

MAILING ADDRESS

PO Box 208103
New Haven CT 06520-8103

Molecular Biophysics and Biochemistry M.S. and Ph.D.

FIELDS OF STUDY Biochemistry, biophysics, molecular biology.

SPECIAL ADMISSIONS REQUIREMENTS M.S. applicants will usually have a B.A. or B.S. in biochemistry, biology, chemistry, or physics. All applicants are assumed to have background equivalent to introductory biology, one year each of organic and physical chemistry, mathematics through differential equations, and one year of physics with calculus. Recent bachelor's degree recipients should submit GRE scores; others may substitute evidence of professional experience. GRE Subject Tests are recommended but not required. Entrance to the Ph.D. program is through an interest-based track in the combined program in Biological and Biomedical Sciences (BBS); see above.

Molecular, Cellular, and Developmental Biology Ph.D.

FIELDS OF STUDY Research training in molecular, cellular, and developmental biology, as well as in genetics and neurobiology; study of catalytic RNA's, cell cycle regulation, chromosome segregation, genetic recombination, mutation, transposons and oncogenes; structure of the cell cytoskeleton, molecular motors, cell surface receptors, protein transport, hormone action, mammalian transcription factors and the regulation of cell proliferation and differentiation; sensory signal transduction, animal color vision, growth cone motility, neural differentiation, synaptogenesis, and the formation of topographic maps. A special program in plant sciences provides research and training in the molecular genetics of flowering, the developmental biology of leaves, the physiology of hormone action, sex determination, and the cellular and molecular biology of photosynthesis.

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Tests in biology, or biochemistry, or cell and molecular biology required. A writing sample that is a personal statement of 500–1,000 words. Entrance to this program is through an interest-based track, usually the Biological Sciences track, in the combined program in Biological and Biomedical Sciences (BBS); see above.

My close interaction with students is at least partly selfish: not a meeting goes by without my

DGS OFFICE

143 Elm
(203) 432-2985

MAILING ADDRESS

PO Box 208310
New Haven CT 06520-8310

Music M.A. and Ph.D.

FIELDS OF STUDY History of music; theory of music.

COMBINED DEGREE PROGRAM Music and Renaissance Studies. Program materials and application information are available from the director of graduate studies in each department.

GRADUATE FACULTY 19

STUDENTS In residence 57; average in entering class 6

SPECIAL ADMISSIONS REQUIREMENTS Previous training in history and theory of music. Writing sample of applicant's previous work: extended papers, compositions, advanced exercises and analyses. The GRE Music Subject Test is also required. Practicum Exam (musicianship).

Near Eastern Languages and Civilizations M.A. and Ph.D.

FIELDS OF STUDY Arabic and Islamic studies (also with an interdisciplinary minor); Greco-Arabic studies; archaeology of the ancient Near East; Assyriology; Egyptology; Coptic and Egyptology.

GRADUATE FACULTY 12

STUDENTS In residence 16; average in entering class 3

SPECIAL ADMISSIONS REQUIREMENTS Reading knowledge of French and German.

DGS OFFICE

HGS 314
www.yale.edu/nelc
(203) 432-2944

MAILING ADDRESS

PO Box 208236
New Haven CT 06520-8236

DGS OFFICE

SHM C-303, 333 Cedar
neurobiology.office@yale.edu
<http://info.med.yale.edu/neurobio>
(203) 785-4323

MAILING ADDRESS

PO Box 208001
New Haven CT 06520-8001

DGS OFFICE

SHM L-200, 333 Cedar
<http://info.med.yale.edu/neurosci>
(203) 785-5932

MAILING ADDRESS

PO Box 208074
New Haven CT 06520-8074

DGS OFFICE

SHM B-334, 333 Cedar
(203) 785-4545

MAILING ADDRESS

PO Box 208066
New Haven CT 06520-8066

DGS OFFICE

Connecticut Hall 108
www.yale.edu/philos
(203) 432-1665

MAILING ADDRESS

PO Box 208306
New Haven CT 06520-8306

Neurobiology Ph.D.

FIELDS OF STUDY The development, neuronal organization, and function of the mammalian central nervous system.

SPECIAL ADMISSIONS REQUIREMENTS

Entrance to this program is through an interest-based track in the combined program in the Biological and Biomedical Sciences (BBS); see above.

Neuroscience Ph.D.

FIELDS OF STUDY The Inter departmental Neuroscience Program offers flexible but structured interdisciplinary training for independent research and teaching in neuroscience. The goal of the program is to ensure that degree candidates obtain a solid understanding of cellular and molecular neurobiology, physiology and biophysics, neural development, systems and behavior, and neural computation.

SPECIAL ADMISSIONS REQUIREMENTS B.S. or B.A. Previous course work in neuroscience, psychobiology, physiological psychology, mathematics through calculus, general physics, general biology, general chemistry, organic chemistry, biochemistry, computer science, or engineering preferred. GRE Subject Test recommended; MCAT may be substituted for GRE. Entrance to this program is through an interest-based track in the combined program in the Biological and Biomedical Sciences (BBS); see above.

Pharmacology Ph.D.

FIELDS OF STUDY Molecular pharmacology; mechanisms of drug action; neuropharmacology; chemotherapy.

SPECIAL ADMISSIONS REQUIREMENTS Entrance to this program is through an interest-based track, usually the Pharmacological Sciences and Molecular Medicine track, in the combined program in the Biological and Biomedical Sciences (BBS); see above.

Philosophy Ph.D.

FIELDS OF STUDY History of philosophy; ethics, aesthetics, political philosophy, and general value theory; epistemology and metaphysics; logic and philosophy of language, philosophy of religion.

GRADUATE FACULTY 16

STUDENTS In residence 18; average in entering class 4

SPECIAL ADMISSIONS REQUIREMENTS Writing sample.

learning something important from each of them about research, about the world, even about myself.

Physics Ph.D.

FIELDS OF STUDY Atomic physics; nuclear physics; particle physics; astrophysics; condensed matter; other areas in collaboration with faculties of Engineering and Applied Science, Mathematics, and Astronomy.

GRADUATE FACULTY 44

STUDENTS In residence 81; average in entering class 18

SPECIAL ADMISSIONS REQUIREMENTS GRE Subject Test in Physics. Prerequisites include a sound undergraduate training in physics and a good mathematical background.

DGS OFFICE

SPL 35
www.yale.edu/physics
(203) 432-3607

MAILING ADDRESS

PO Box 208120
New Haven CT 06520-8120

DGS OFFICE
124 Prospect
www.yale.edu/polisci
(203) 432-5241

MAILING ADDRESS
PO Box 208301
New Haven CT 06520-8301

DGS OFFICE
Kirtland Hall, 2 Hillhouse
(203) 432-4516 or 432-4518

MAILING ADDRESS
PO Box 208205
New Haven CT 06520-8205

DGS OFFICE
320 Temple Street
(203) 432-0828

MAILING ADDRESS
PO Box 208297
New Haven CT 06520-8297

DGS OFFICE
53 Wall, Rm 324
(203) 432-0672

MAILING ADDRESS
PO Box 208298
New Haven CT 06520-8298

DGS OFFICE
LCIAS, 34 Hillhouse
(203) 432-3423

MAILING ADDRESS
PO Box 208206
New Haven CT 06520-8206

Political Science Ph.D.

FIELDS OF STUDY Contemporary theory; political philosophy; American politics; international relations; comparative politics; political economy; empirical analysis and research methodology.

GRADUATE FACULTY 30

STUDENTS In residence 80; average in entering class 12–15

Psychology M.S. and Ph.D.

FIELDS OF STUDY Areas of concentration may fall within or cut across departmental groupings of behavioral neuroscience, clinical, cognitive, developmental, and social/personality psychology.

GRADUATE FACULTY 25

STUDENTS In residence 65; average in entering class 15

NOTE Students in the M.S. program will not ordinarily be considered for the Ph.D. program.

Religious Studies Ph.D.

FIELDS OF STUDY American religious history, Buddhism, Hebrew Bible/Old Testament, history of ancient Christianity, Islamic religion, Judaic studies, New Testament, philosophy of religion, religious ethics, theology.

GRADUATE FACULTY 36, including faculty from the Divinity School and from various departments participating in program.

STUDENTS In residence 71; average in entering class 10

SPECIAL ADMISSIONS REQUIREMENTS Previous advanced study in relevant areas; recent writing sample of 5–15 pages.

Renaissance Studies Combined Ph.D.

FIELDS OF STUDY English, history, history of art, religious studies, Judaic studies, French, German, Italian, Spanish, Portuguese, political science, comparative literature, and combinations of these fields.

COMBINED DEGREE PROGRAMS Renaissance Studies and Classics; Renaissance Studies and Comparative Literature; Renaissance Studies and English; Renaissance Studies and History; Renaissance Studies and the History of Art; Renaissance Studies and the History of Music; Renaissance Studies and Italian; Renaissance Studies and Spanish and Portuguese.

GRADUATE FACULTY 32, from various departments affiliated with the program.

STUDENTS In residence 11; average in entering class 3

SPECIAL ADMISSIONS REQUIREMENTS B.A. degree in relevant field; appropriate foreign language preparation; GRE Subject Test depends on affiliated department; critical or research paper of 25 pages. Application must be made to the department of concentration, with an indication that the applicant seeks nomination to the combined degree in Renaissance Studies.

Russian and East European Studies M.A.

FIELDS OF STUDY Comparative literature; economics; history; political science; law; Slavic literature and languages; sociology.

GRADUATE FACULTY 25, from various departments participating in program.

STUDENTS In residence 10; average in entering class 5

SPECIAL ADMISSIONS REQUIREMENTS Proficiency in Russian or another East European language.

DGS OFFICE

HGS 2710
slavic.department@yale.edu
www.yale.edu/slavic
(203) 432-1300

MAILING ADDRESS

PO Box 208236
New Haven CT 06520-8236

DGS OFFICE

140 Prospect
(203) 432-3323

MAILING ADDRESS

PO Box 208265
New Haven CT 06520-8265

DGS OFFICE

82–90 Wall, 2d floor
spanish.department@yale.edu
www.yale.edu/spanish/
(203) 432-7556

MAILING ADDRESS

PO Box 208204
New Haven CT 06520-8204

DGS OFFICE

24 Hillhouse
www.stat.yale.edu/
(203) 432-0666

MAILING ADDRESS

PO Box 208290
New Haven CT 06520-8290

Slavic Languages and Literatures M.A. and Ph.D.

FIELDS OF STUDY Russian literature; medieval Slavic literature and philology (by special arrangement); Polish literature (by special arrangement).

GRADUATE FACULTY 12

STUDENTS In residence 20; average in entering class 3

SPECIAL ADMISSIONS REQUIREMENTS Good command of Russian language. All entering graduate students must pass departmental proficiency examinations in Russian.

Sociology Ph.D.

FIELDS OF STUDY Social policy; comparative sociology/macro sociology; culture, economy, and society; historical sociology; history of sociology/social thought; law and society; mass media; mathematical sociology; methodology (qualitative approaches); methodology (quantitative approaches); networks; occupations/professions; political sociology; race/ethnic/minority relations; religion; social change; social movements; social/formal/complex organization; social psychology; sociology of sexuality; stratification theory; urban sociology.

GRADUATE FACULTY 16

STUDENTS In residence 35; average in entering class 5

Spanish and Portuguese Ph.D.

FIELDS OF STUDY Spanish peninsular literature, Latin American literature, Portuguese and Brazilian literatures.

COMBINED DEGREE PROGRAMS Spanish and Portuguese and African American Studies; Spanish and Portuguese and Renaissance Studies. Program information and admissions materials are available from the director of graduate studies in each department.

GRADUATE FACULTY 12

STUDENTS In residence 26–28; average in entering class 4–6

SPECIAL ADMISSIONS REQUIREMENTS Thorough command of the language of specialization and a background in its literature; command of at least one of the three additional languages which the student will need to fulfill requirements; academic writing sample in the language of the proposed specialization not to exceed 25 pages in length.


Statistics M.A. and Ph.D.

FIELDS OF STUDY Statistical theory (with emphasis on foundations); Bayes theory; decision theory; nonparametric statistics; probability theory (stochastic processes, asymptotics, weak convergence); information theory; econometrics; classification; statistical computing; graphical methods.

GRADUATE FACULTY 6

STUDENTS In residence 17; average in entering class 3

SPECIAL ADMISSIONS REQUIREMENTS Strong undergraduate preparation in mathematics, statistics, or computer science (major need not be in one of these areas); some probability and statistics; a GRE Subject Test in area of undergraduate major.



It's the norm in my department for students to have fulfilling working relationships with their professors. I've been a graduate student for three years, and sometimes I still can't believe how much time and attention my adviser gives to my projects.

EMILY WEN, CHEMICAL ENGINEERING